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Comparison of MetAP2 Homologues (mouse = SEQ ID NO:12; human = SEQ ID NO:13; rat = SEQ ID NO:17; yeast = SEQ ID NO:14)

	1	15	16	30	31	45	46	60	61	75	76	90
mouse	MAGVEQAASFGGHIN	GDLDPDDREEGTSST	AAAACKRRKKKG	KGAVSAVQELDKES	GALVDEVAKQLESOA	LEEKERDDDEDGG						
rat	MAGVEEAASSFGGHIN	RDLDPDDREEGTSST	AAAACKRRKKKG	KGAVSAGQELDKES	GTSVDEVAKQLESOA	LEEKERDDDEDGG						
human	MAGVEEVAASGSHLN	GDLDPDDREEGAAT	AAAACKRRKKKG	KGPSAAGEQEPDKES	GASVDEVARQLESA	LEDKERDEDEDGG						
yeast												
	91		105	106		120	121	135	136			
mouse	DADGATGKKKKKKK	KRGPKVQTDPPSVPI	CDLYPNGVFPKGQEC	EPPTQDGRTAWRT	TSEEKKALDQASEEI	WNDFREAAEHRQVR						
rat	DGDGAAGKKKKKKK	KRGPKVQTDPPSVPI	CDLYPNGVFPKGQEC	EPPTQDGRTAWRT	TSEEKKALDQASEEI	WNDFREAAEHRQVR						
human	DGDGATGKKKKKKK	KRGPKVQTDPPSVPI	CDLYPNGVFPKGQEC	EPPTQDGRTAWRT	TSEEKKALDQASEEI	WNDFREAAEHRQVR						
yeast	ESKKKKKKKKKKK	N-----VKI	ELLFPDGKYPEGAWM	DYHQDFNLQRTDEE	SRVLRDLERA--EH	WNDVRKGAEIHRVR						
	181		195	196		210	211	225	226			
mouse	KVVMWSWIKGPMTMIE	ICEKLEDCSRKLIKE	NGLNAG-----LA	FPTGCSLNNAHHT	PNAGDTTVLQYDDIC	KIDFGTHISGRIIDC						
rat	KVVMWSWIKGPMTMIE	ICEKLEDCSRKLIKE	NGLNAG-----LA	FPTGCSLNNAHHT	PNAGDTTVLQYDDIC	KIDFGTHISGRIIDC						
human	KVVMWSWIKGPMTMIE	ICEKLEDCSRKLIKE	NGLNAG-----LA	FPTGCSLNNAHHT	PNAGDTTVLQYDDIC	KIDFGTHISGRIIDC						
yeast	RAIKDRIVPGMKLMD	IADMINTTRKYGA	ENLIAMEDPKSQGIG	FPTGILSLNHCAHFT	PNAGDTTVLQYDDIC	KIDFGTHISGRIIDC						
	271		285	286		300	301	315	316			
mouse	AFTVTFENPKYDILLT	AVKDATNTGIKCAGI	DVRLCDVGEAIQEVW	ESYEVEIDGKTYQVK	PIRNLNHGHSIGPYRI	HAGKTVPTVKGEAT						
rat	AFTVTFENPKYDILLK	AVKDATNTGIKCAGI	DVRLCDVGEAIQEVW	ESYEVEIDGKTYQVK	PIRNLNHGHSIGPYRI	HAGKTVPTVKGEAT						
human	AFTVTFENPKYDILLK	AVKDATNTGIKCAGI	DVRLCDVGEAIQEVW	ESYEVEIDGKTYQVK	PIRNLNHGHSIGPYRI	HAGKTVPTVKGEAT						
yeast	AFTVTFDPQYDNLLA	AVKDATNTGIKCAGI	DVRLCDVGEAIQEVW	ESYEVEIDGKTYQVK	PIRNLNHGHSIGPYRI	HAGKTVPTVKGEAT						
	361		375	376		390	391	405	406			
mouse	RMEEGEYVAIETFGS	TGKGVVHDDMECSHY	MKNFDVGHVPIRLPR	TKHLLNVINENFGTL	AFCRRWLDRIGESKY	IMALKNLCDLGIVDP						
rat	RMEEGEYVAIETFGS	TGKGVVHDDMECSHY	MKNFDVGHVPIRLPR	TKHLLNVINENFGTL	AFCRRWLDRIGESKY	IMALKNLCDLGIVDP						
human	RMEEGEYVAIETFGS	TGKGVVHDDMECSHY	MKNFDVGHVPIRLPR	TKHLLNVINENFGTL	AFCRRWLDRIGESKY	IMALKNLCDLGIVDP						
yeast	KMEEGEHFAETEFGS	TGRRGYVTAGGEVSH	ARSAEDHQVMPTLDS	AKNLKTIDRNFGTL	PFCCRRLDRIGQEKY	LFALNNLVVRHGLVQD						
	451		465	466		480		435	436			
mouse	YPLLCDIKGSYTAQF	EHTILLRPTCKEVVS	RGDDY--					450				
rat	YPLLCDIKGSYTAQF	EHTILCAQPVKLSA	EEMTIKT									
human	YPLLCDIKGSYTAQF	EHTILLRPTCKEVVS	RGDDY--									
yeast	YPLNDIPIGSYTAQF	EHTILLHAKKEVVS	KGDDY--									
	421											

Title: Dominant Negative Variants of Methionine Aminopeptidase 2
 Inventor(s): Chang et al.
 Appln. No. 10/712,359
 Docket #: 66153/45004



Figure 1

MetAP2

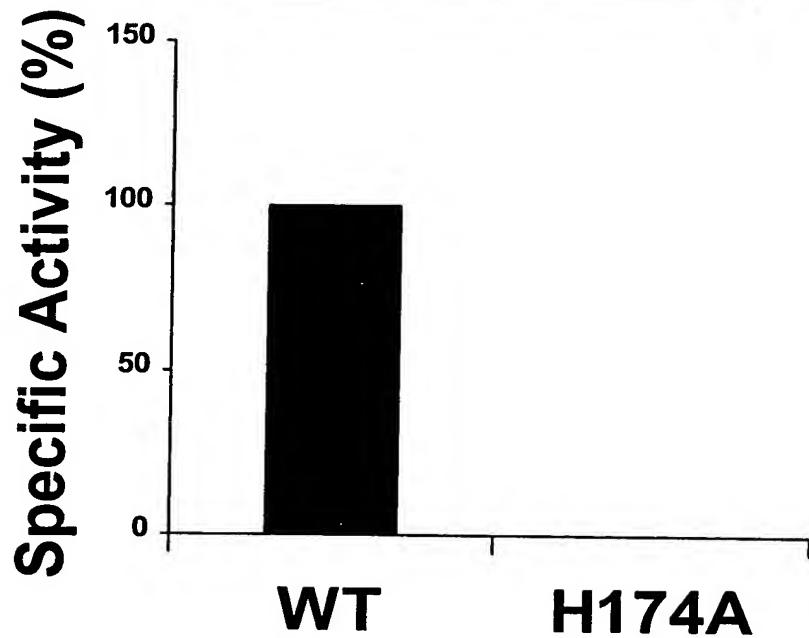
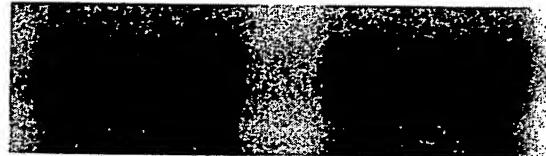
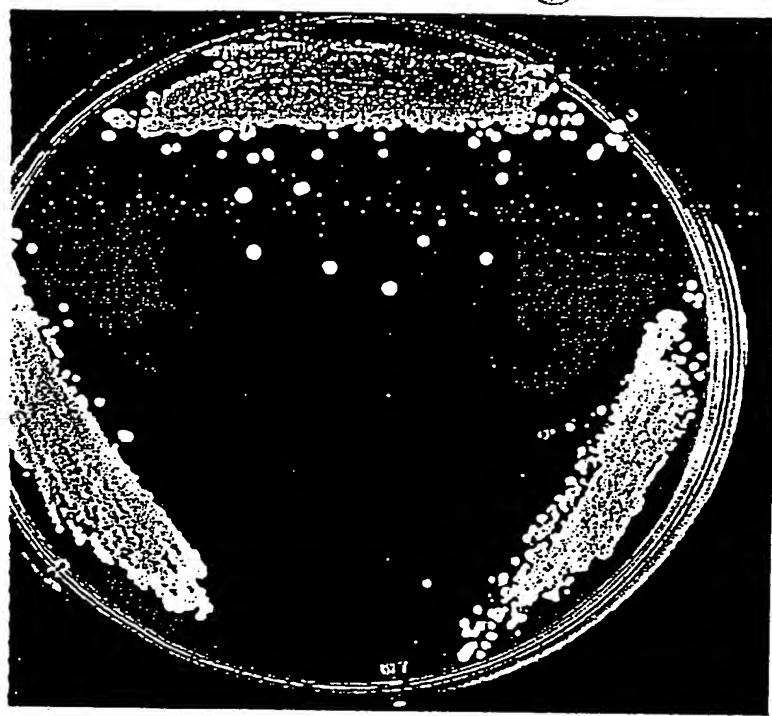


Figure 2

Title: Dominant Negative Variants of Methionine Aminopeptidase 2
Inventor(s): Chang et al.
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A. Glucose



B. Galactose

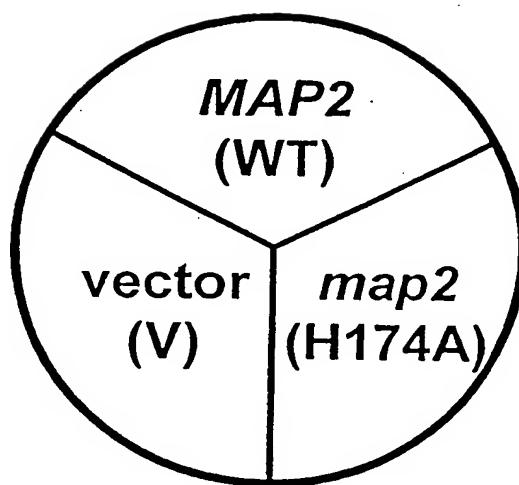


FIGURE 3

Title:

Dominant Negative Variants of Methionine Aminopeptidase 2

Inventor(s):

Chang et al.

Appln. No.

10/712,359

Docket #

66153/45004

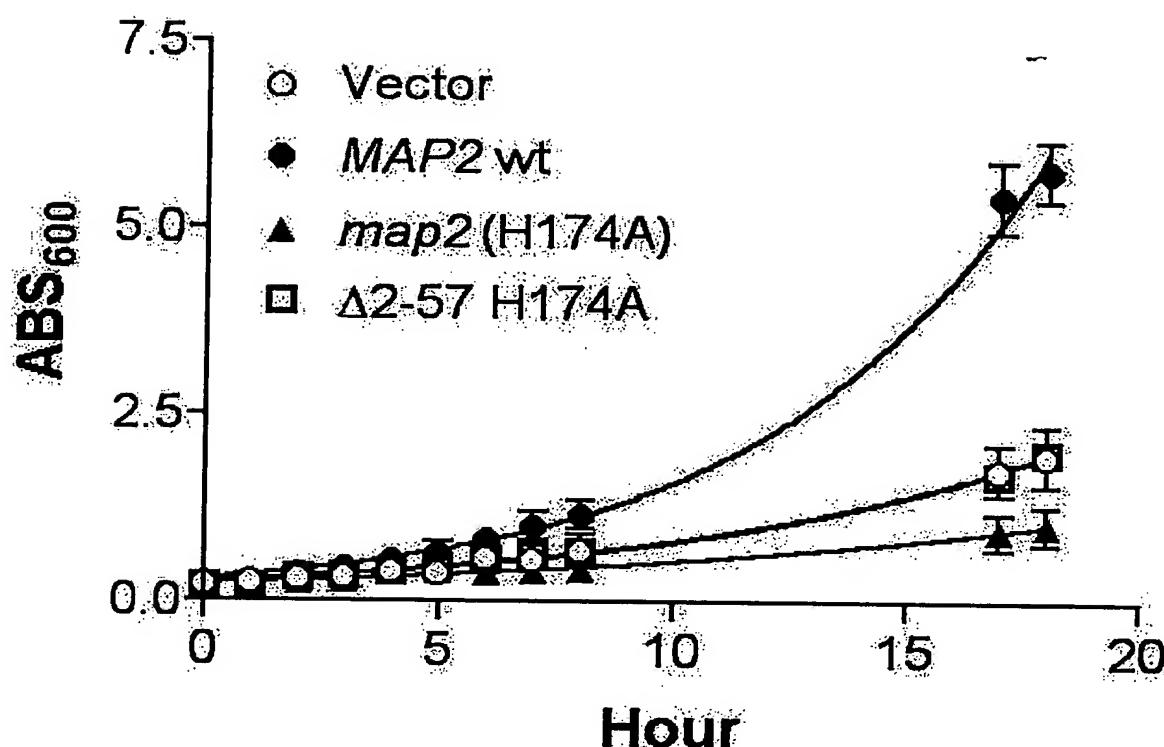
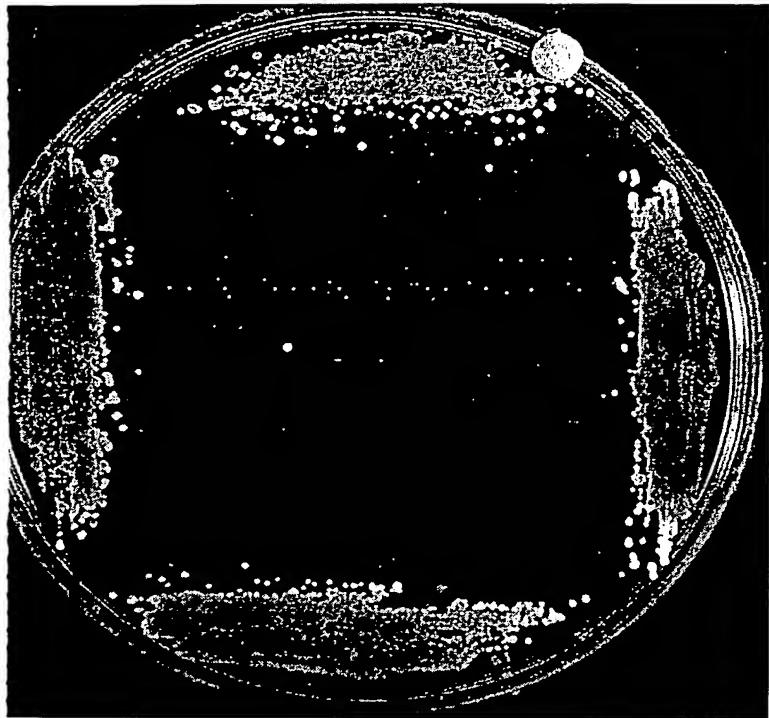
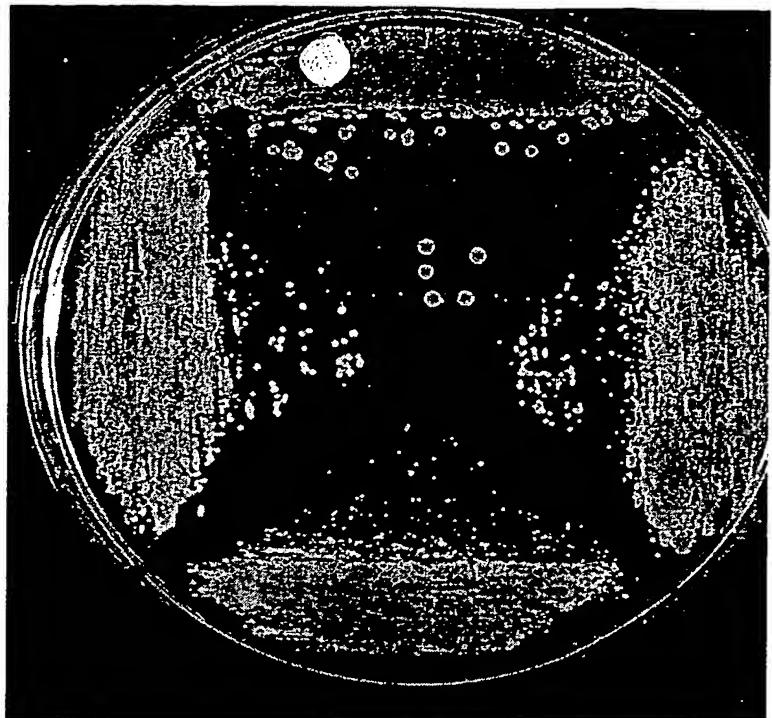


Figure 4

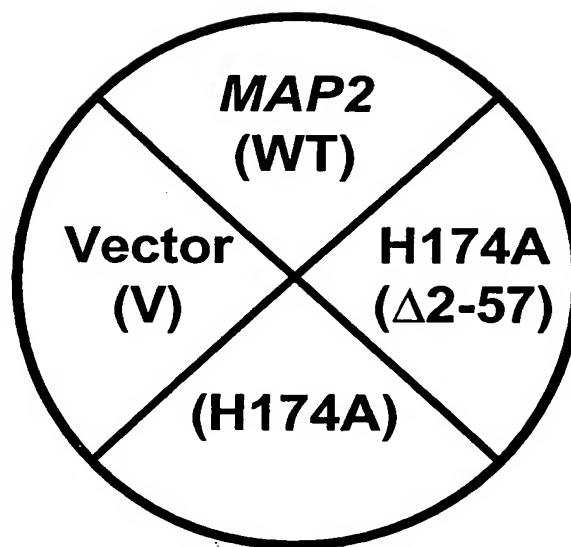
Title: Dominant Negative Variants of Methionine
Aminopeptidase 2
Inventor(s): Chang et al.
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A. Glucose



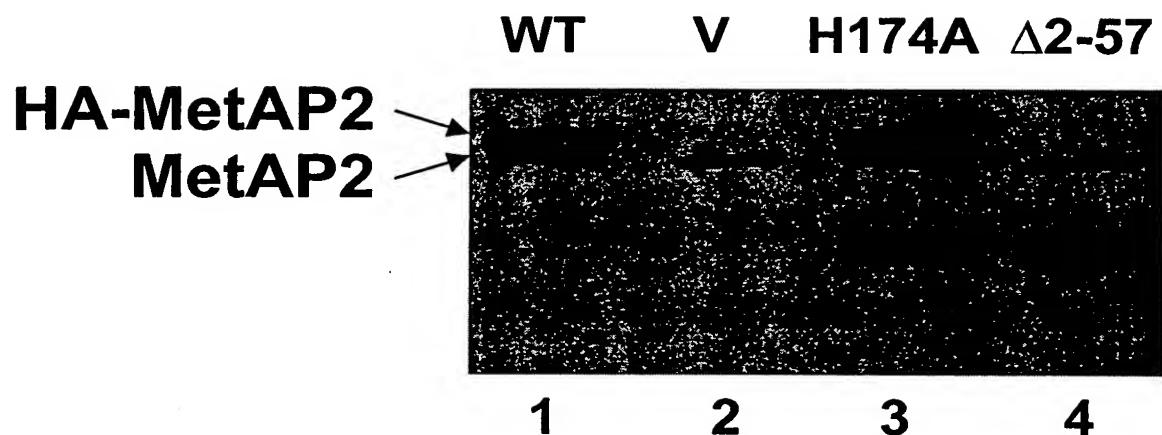
B. Galactose



H174A-MetAP2 requires N-terminal residues 2-57 for inhibition of *map1 Δ* growth under the GAL1 promoter.

Figure 5

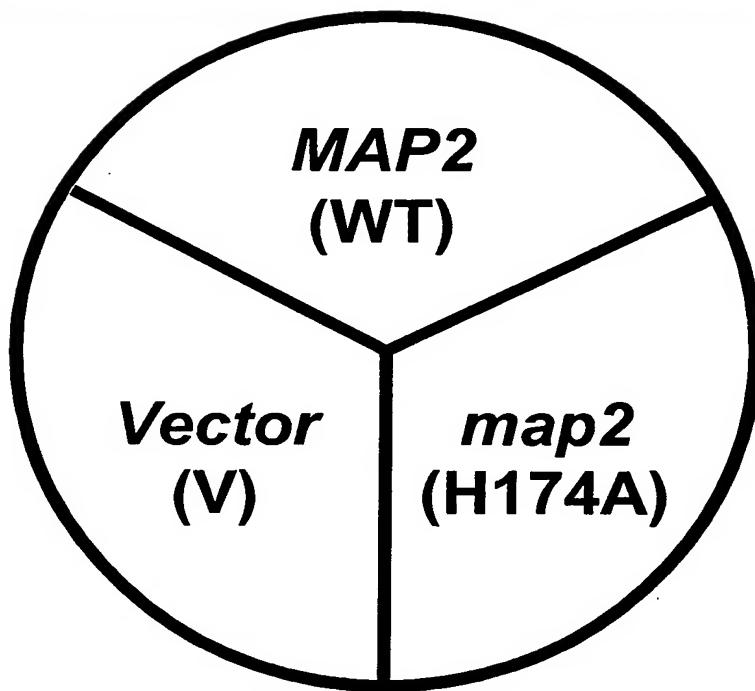
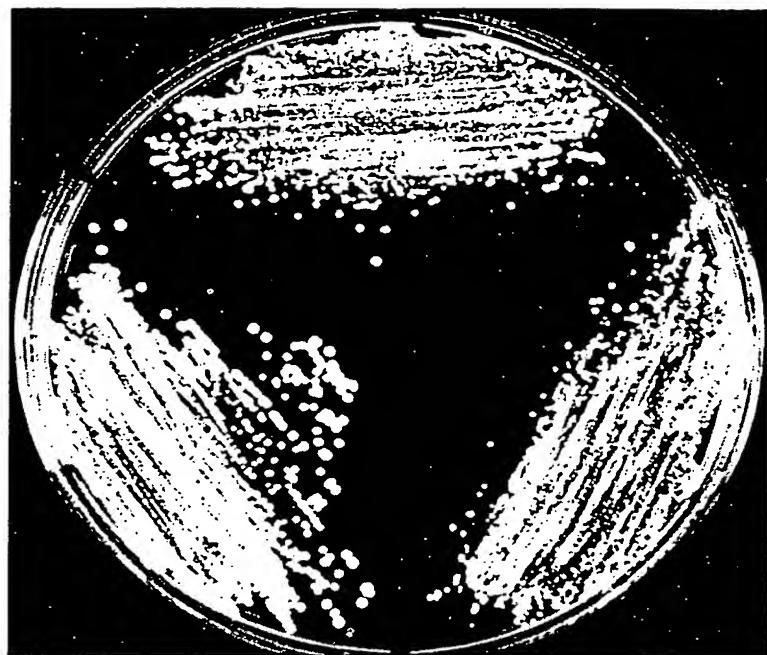
Title: Dominant Negative Variants of Methionine Aminopeptidase 2
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Docket # 66153/45004



The steady state levels of each MetAP2 construct are comparable. Immunoblot comparison of HA-MetAP2 wt, HA-MetAP2 H174A, and MetAP2 Δ 2-57 H174A steady state levels in map1 Δ .

Figure 6

Title: Dominant Negative Variants of Methionine
 Aminopeptidase 2
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Overexpression of H174A-MetAP2 under the GPD promoter does not inhibit the growth of map2Δ

Figure 7

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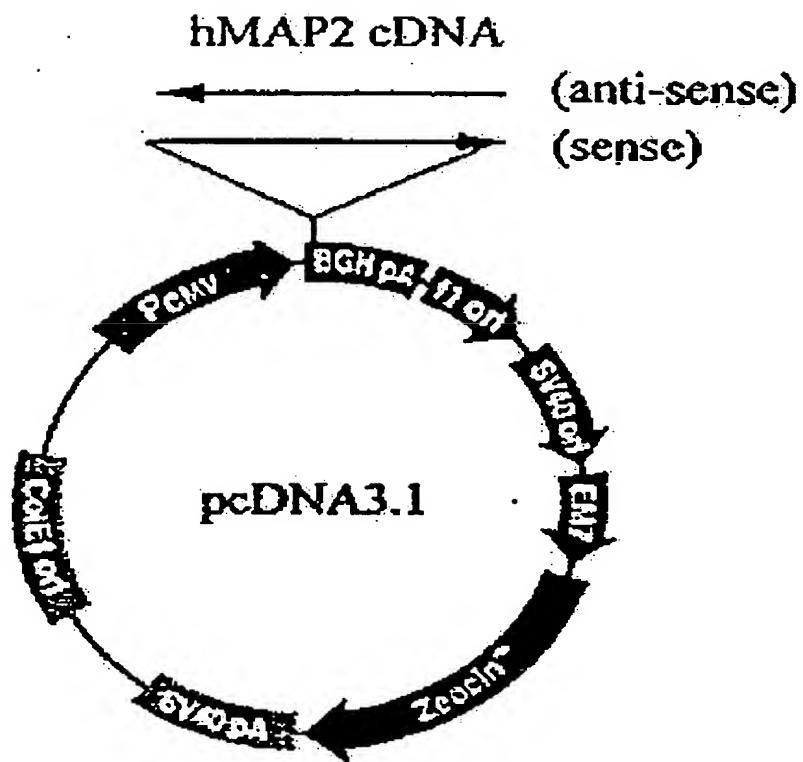
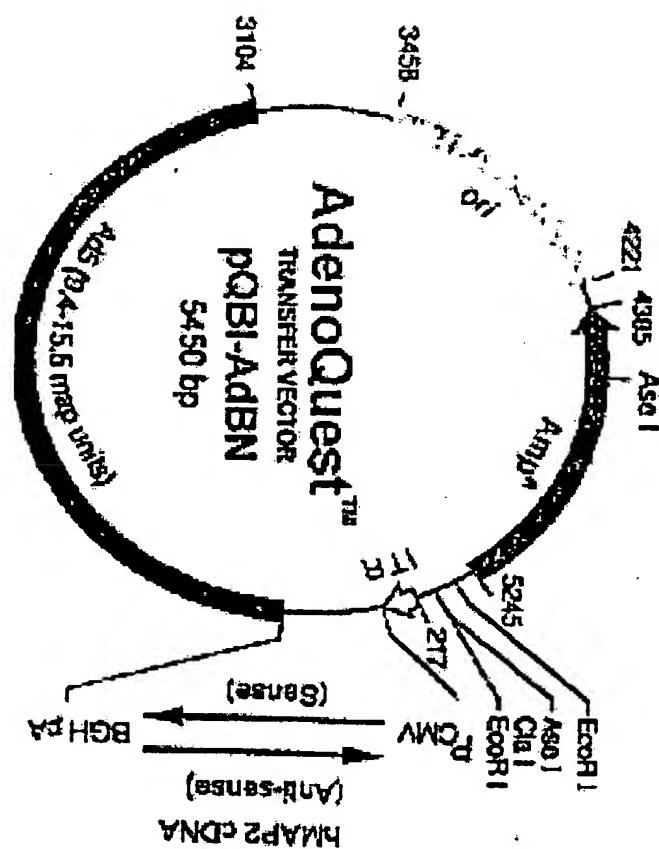


Figure 8

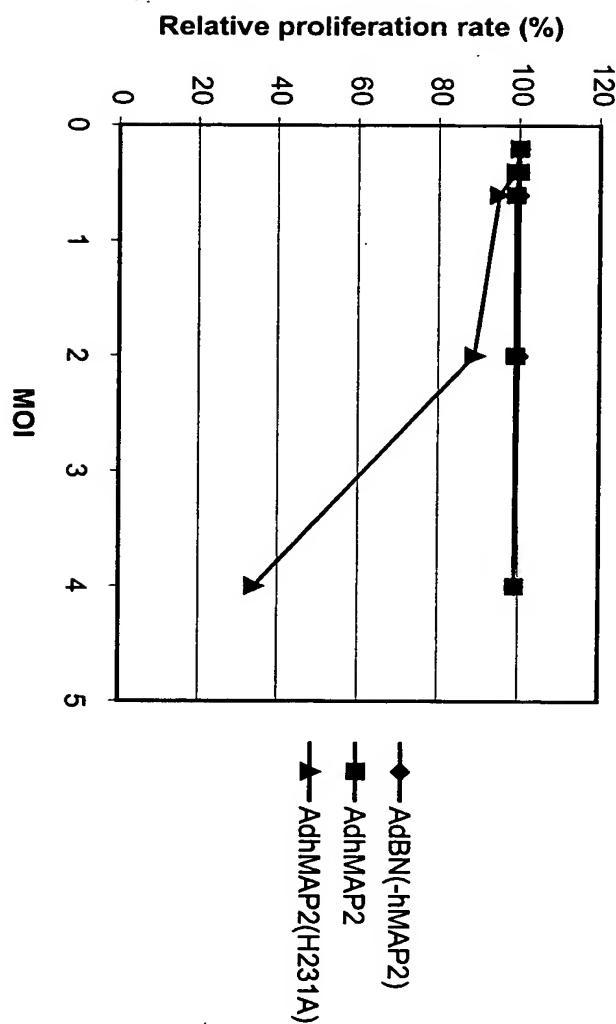
Title: Dominant Negative Variants of Methionine Aminopeptidase 2
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 Docket # 66153/45004

Figure 9



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Docket # 66153/45004

Figure 10



Title: Dominant Negative Variants of Methionine Aminopeptidase 2
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Appln. No. 10/712,359
Docket # 66153/45004

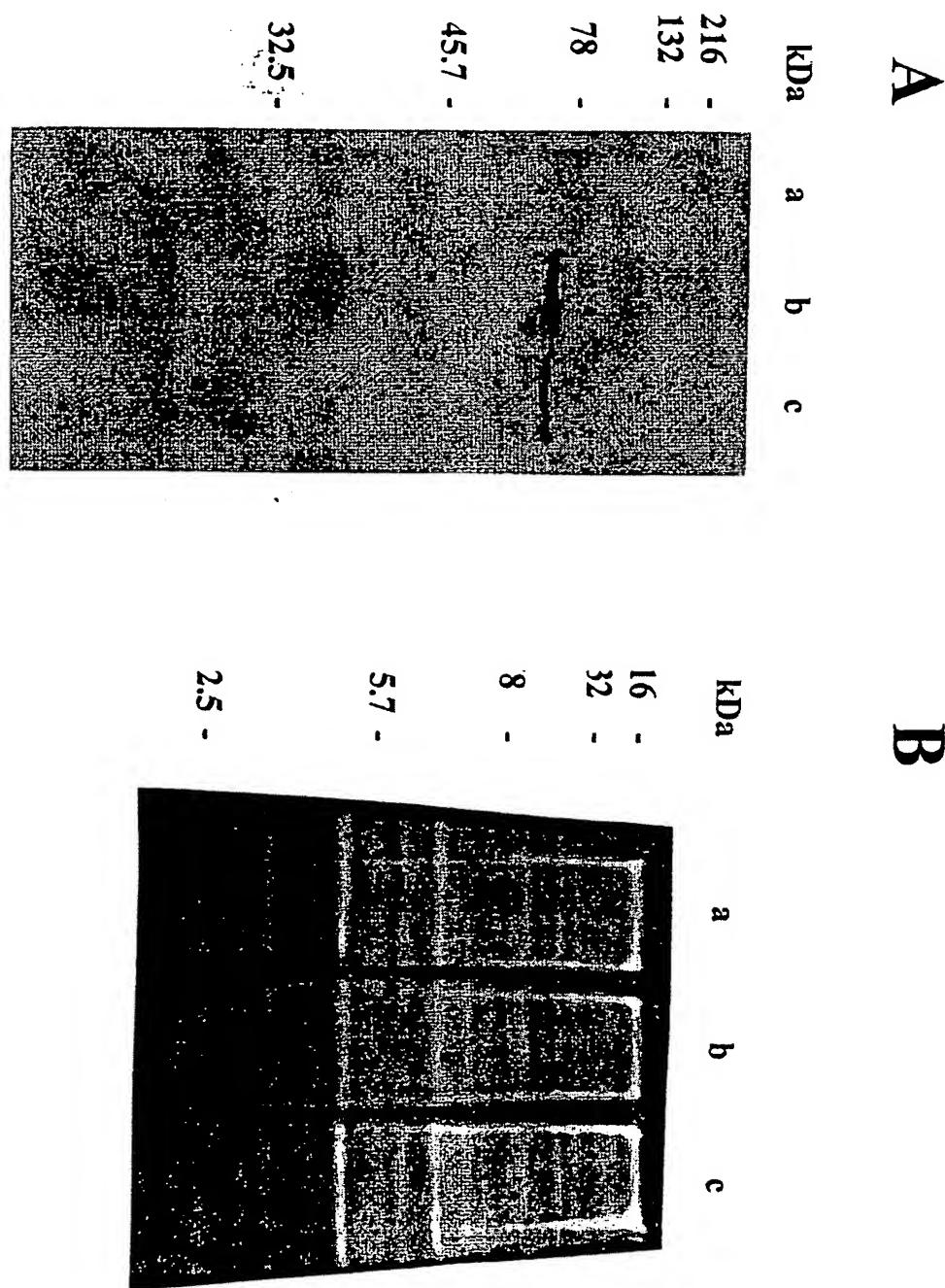


Figure 11

Title: Dominant Negative Variants of Methionine
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